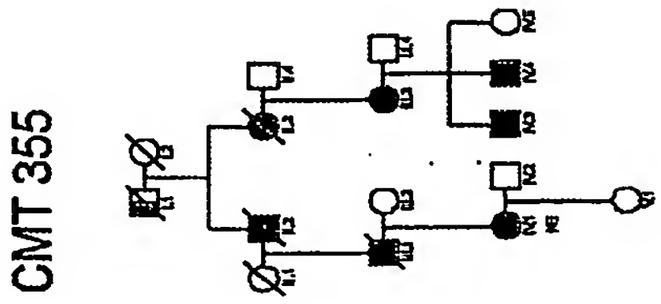
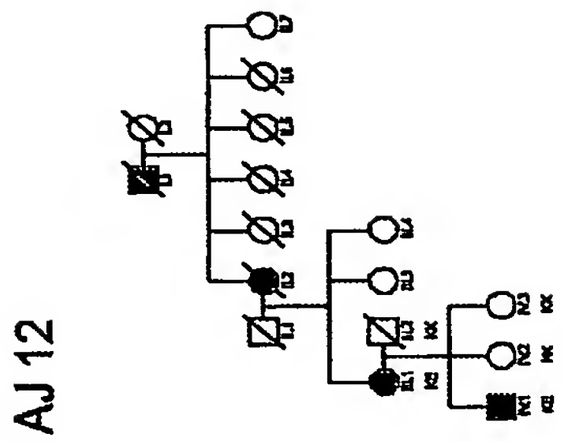
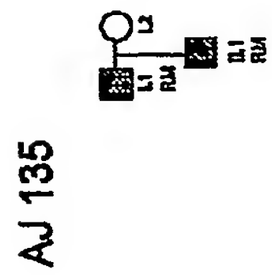
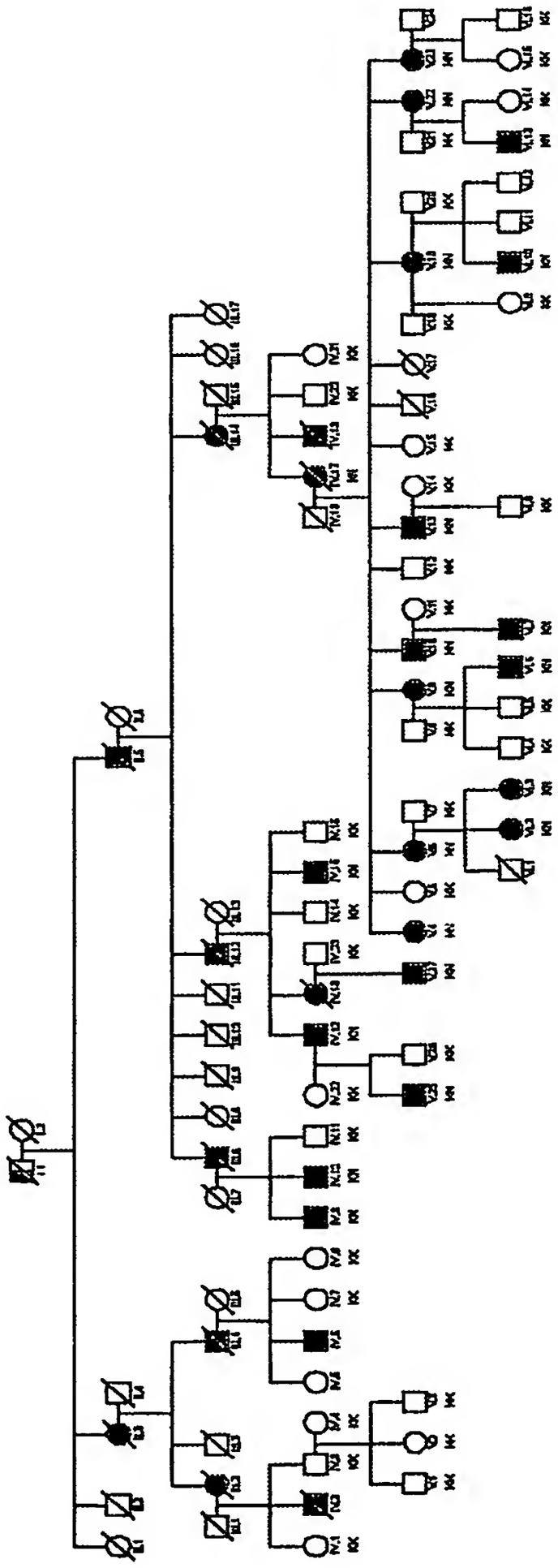
Figures
Fig. 1:









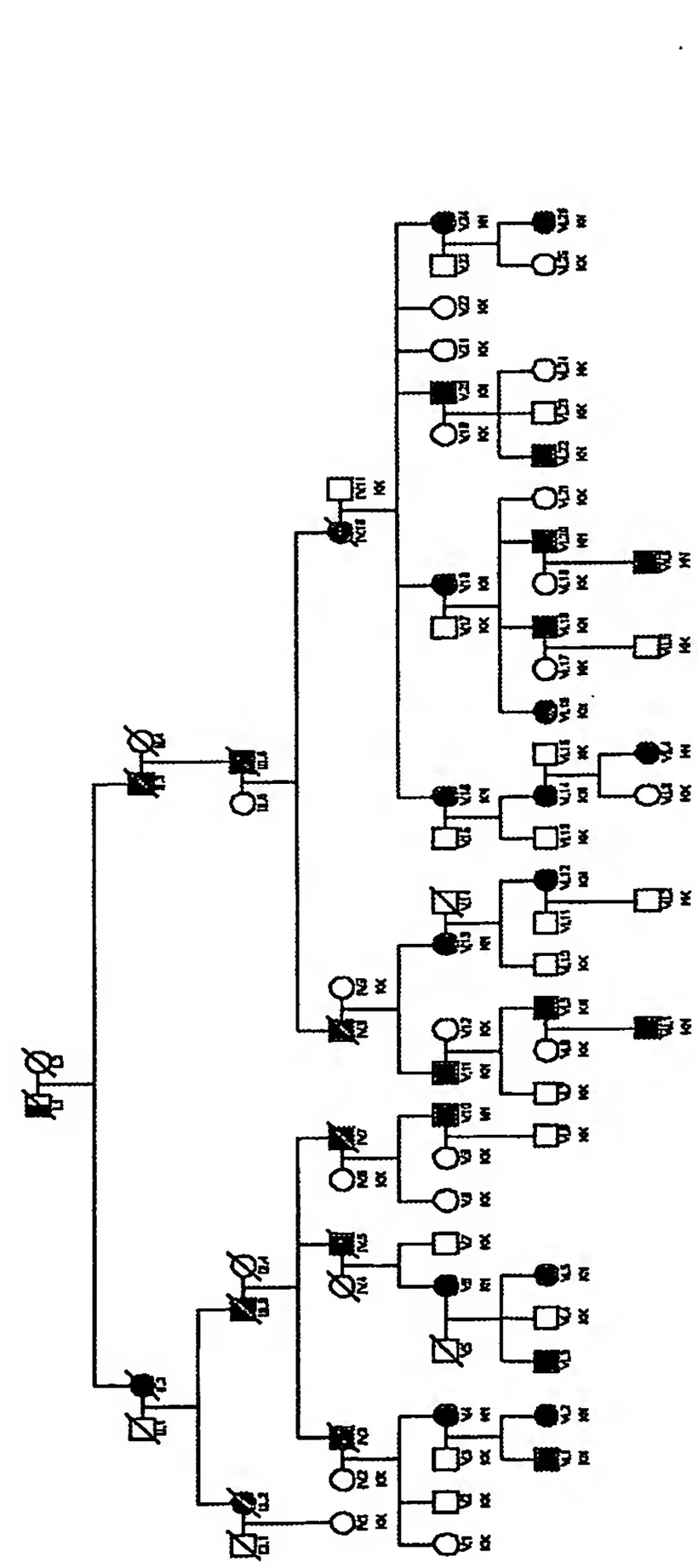


Fig. 2:

		● Belgian: CMT-M:IV.17		● Czech: CMT-196:V.4		● Czech: CMT-196: VI.13		● Bulgarian: AJ-12:		● English: CMT-355:		○ CMT-196: IV.6; Control individual	
D12S86		123	123	127	133	127	129	127	129	127	129	143	129
D12S349		172	174	174	176	174	176	174	176	174	176	164	164
D12S1619		168	180	180	194	180	194	180	194	180	194	180	188
D12S385		129	139	139	135	125	135	125	135	125	135	135	135
D12SGAAA		202	198	192	202	202	202	202	202	202	202	178	192
Rs2278181		t	t	t	t	t	t	t	t	t	t	t	t
RS2278182	2.3cM	g	g	a	g	a	g	a	g	a	g	g	g
RS11038	1.7Mbp	a	a	g	a	g	a	g	a	g	a	a	a
Rs1133026		g	g	a	g	a	g	a	g	a	g	g	g
D12S395		224	240	226	240	244	240	244	240	244	240	222	222
D12S1666		268	266	266	266	268	266	268	266	268	266	268	266
D12S76		111	113	115	117	111	117	111	117	111	117	113	119
PLA2G1B		131	129	135	131	131	131	131	131	131	131	119	122
D12S1349		175	175	179	175	173	177	173	177	173	177	173	183
D12S1612		246	276	253	265	261	303	261	303	261	303	259	275

Fig. 3:

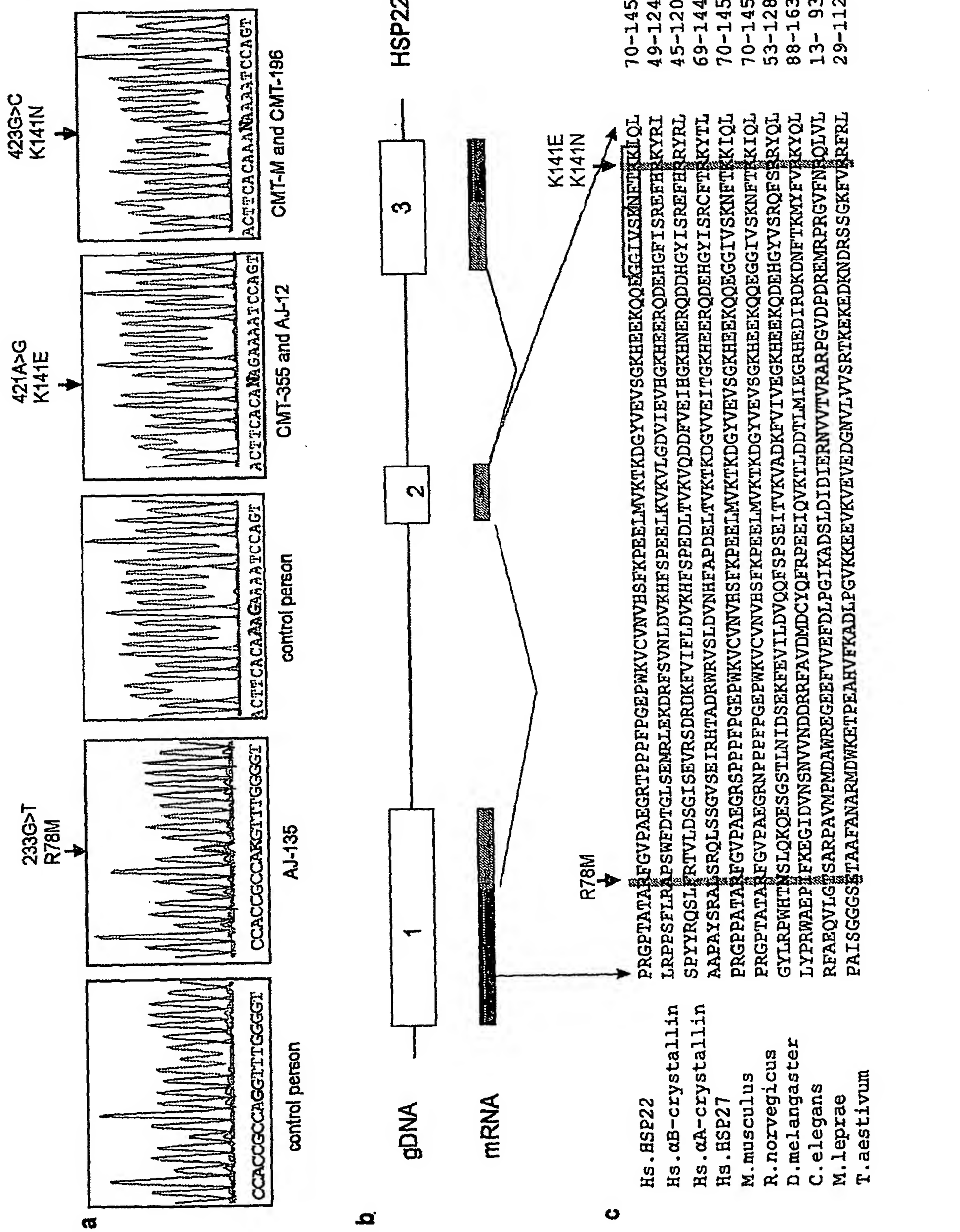

423G>C
K141N
ACTTCACAAAGAAATCCAGT
CMT-M and CMT-196
421A>G
K141E
ACTTCACAAGAAAATCCAGT
control person
ACTTCACAAAGAAAATCCAGT
CMT-355 and AJ-12
233G>T
R78M
CCACCGCCAGGTTTGGGGT
control person
CCACCGCCAKGTTTGGGGT
AJ-135
a
b
gDNA
mRNA
1
2
3
HSP22
K141E
K141N
R78M
c
Hs.HSP22
Hs.αB-crystallin
Hs.αA-crystallin
Hs.HSP27
M.musculus
R.norvegicus
D.melangaster
C.elegans
M.leprae
T.aestivum
70-145
49-124
45-120
69-144
70-145
70-145
53-128
88-163
13- 93
29-112

Fig. 4:

(a)

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121 acccccttccc agacgacttg acagcctctt ggcccgactg ggctctgcct cgtctctcct

181 ccgcctggcc aggcacccta aggtcgggca tggtgccccg gggccccact gccaccgcca

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301 tgtgtgtgaa tgtgcacagc ttcaagccag aggagttgat ggtgaagacc aaagatggat

361 acgtggaggt gtctggcaaa catgaagaga aacagcaaga aggtggcatt gtttctaaga

421 acttcacaaa gaaaatccag cttcctgcag aggtggatcc tgtgacagta tttgcctcac

481 tttccccaga gggtctgctg atcatcgaag ctccccaggt ccctccttac tcaacatttg

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661 tacattactt tagctgaact cagatttagt gcaagtaaaa tgttagaggg tgcgggggtg

721 aggactgacc acagattccc tggatagtgt agtggtagat ttctccacag gatagcgcaa

781 ttggcaaatc atgcttggtt gtgttaggcc aaaatactag ttttgctttc tttacctttt

841 ctatcttgat gaaaatgttg cacattctat agttgcaaaa cacataaaag gggacttaac

901 atttcacgtt gtatcttact tgcagtgaat gcaagggtta cttttctctg gggacctccc

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1081 tgggtgatat acaggtctta tatccccata tggaatttat ccatcaacca cataaaaaca

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1201 gcactcccta aggacgctgg gagcctgtca gtttatgatc tgacctaggt ccccccttc

1261 ttctgtcccc tgtgtttaag tcgggatttt tacagaggga gctgtctcca gacagctcca

1321 tcaggaacca agcaaaggcc agatagcctg acagataggc tagtggtatt gtgtatatgg

1381 gcgggacgtg tgtgtcatta ttatttgagt tatgctgttg tttaggggta aataacagta

1441 aataattaat aataataata ataataataa taaaggagct gacgttctta aaaaaaaaaa

1501 aaaaaaaaaa a

(b)

MADGQMPFSCHYPSRLRRDPFRDSPLSSRLLDDGFGMDPFPDDLTASWPDWALPRLSSAWPGTLRSGM

VPRGPTATARFGVPAEGRTPPPFPGEPWKVCVNVHSFKPEELMVKTKDGYVEVSGKHEEKQQEGGIVSK

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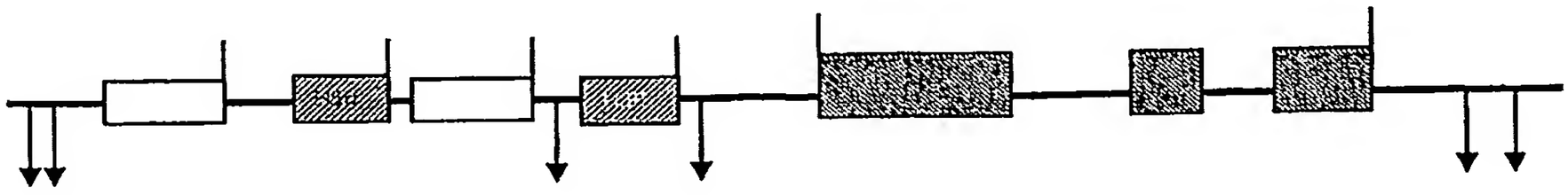
Fig. 5: